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FILE COVERS 1907 - 16 Jun 2003 VOL 138 ISS 25  
FILE LAST UPDATED: 15 Jun 2003 (20030615/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s saxifraga and poultry  
348 SAXIFRAGA  
20911 POULTRY  
8 POULTRIES  
20916 POULTRY  
(POULTRY OR POULTRIES)  
5 SAXIFRAGA AND POULTRY

=> d\_L1\_1-5\_ibib\_abs hitrn

L1 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002-769645 CAPLUS

DOCUMENT NUMBER: 137:283985  
 TITLE: Cosmetics containing peptides, mucopolysaccharides, and plant extracts  
 INVENTOR(S): Yamamoto, Tsukasa; Nakamura, Masumi  
 PATENT ASSIGNEE(S): Shizen K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002293747	A2	20021009	JP 2001-96999	20010329

PRIORITY APPLN. INFO.: JP 2001-96999 20010329  
 AB This invention relates to skin preps. comprising sol. egg shell membranes, mucopolysaccharides, amino acids, and plant-originated substances which may have skin-lightening, anti-inflammatory, anti-allergic, and anti-oxidn. activities. For example, a skin-lightening lotion contained sol. egg shell membrane 0.2, Na hyaluronate 0.1, *Saxifraga* exts. 0.5, soybean exts. 1, 1,3-butylene glycol 5, polyoxyethylene glyceryl isostearate 0.5, pH modifiers q.s., perfumes q.s., preservatives q.s., and distd. water balance to 100 %.

L1 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:547219 CAPLUS  
 DOCUMENT NUMBER: 137:114233  
 TITLE: Cosmetic compositions containing elastins, collagens, umbilical cord extracts, etc., and polyphenols  
 INVENTOR(S): Ohara, Mitsuharu; Kawai, Tokuhisa  
 PATENT ASSIGNEE(S): Ichimaru Pharcos Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002205913	A2	20020723	JP 2001-2213	20010110

PRIORITY APPLN. INFO.: JP 2001-2213 20010110  
 AB The compns., which show skin-conditioning and lightening effects and hair growth-stimulating action, contain (A) .gtoreq.1 water-sol. components selected from (a) water-sol. elastins extd. from pig or horse nuchal ligament or its hydrolyzates, (b) water-sol. collagens extd. from pig or horse skin tissue or its hydrolyzates, (c) water-sol. exts. of pig or horse umbilical cord or its hydrolyzates, and (d) water-sol. exts. of hen egg or its hydrolyzates and (B) polyphenols, e.g. flavonoids, coumarins, phenylpropanoids, tannins, etc. (B) may be exts. of crude drugs, plants, fungi, microorganisms, etc., contg. polyphenols. A cream contg. 2.0% horse nuchal ligament-derived water-sol. elastin (prepn. given) and 2.0% *Saxifraga stolonifera* exts. significantly prevented UV-induced wrinkle formation in guinea pigs.

L1 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:446083 CAPLUS  
 DOCUMENT NUMBER: 137:5445  
 TITLE: Liver function protecting or improving agent  
 INVENTOR(S): Nakagiri, Ryusuke; Kamiya, Toshikazu; Hashizume, Erika; Sakai, Yasushi; Kayahashi, Shun  
 PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 26 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1213027	A2	20020612	EP 2001-129254	20011211
EP 1213027	A3	20030115		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002275082	A2	20020925	JP 2001-376550	20011211

PRIORITY APPLN. INFO.: JP 2000-375510 A 20001211

AB The present invention provides a liver function protecting or improving agent, foods and drinks or feeds having liver function protecting or improving activity, and additives for foods and drinks or feeds having liver function protecting or improving activity, which comprise a plant of the family Saxifragaceae or an ext. of the plant. Also provided is a method of screening for liver function protecting or improving agents.

L1 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:828867 CAPLUS

DOCUMENT NUMBER: 134:9169

TITLE: Skin preparations containing camu-camu (*Myrciaria dubia*) extracts and active oxygen scavengers

INVENTOR(S): Hata, Tomonori; Hoshino, Hiroshi; Uehara, Shizuka

PATENT ASSIGNEE(S): Kosei Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000327550	A2	20001128	JP 1999-138170	19990519

PRIORITY APPLN. INFO.: JP 1999-138170 19990519

AB The preps., which suppress lipid peroxides thus preventing skin from inflammation, pigmentation, and aging, contain (A) camu-camu exts. and (B) active O scavengers, e.g. superoxide dismutase, mannitol, carotenoids, hydroquinones, taurine, phospholipids, rutin, gallic acid, plant exts. A cream contg. camu-camu ext. (prepn. given), *Melissa officinalis* ext., and dl-.alpha.-tocopherol acetate showed skin-conditioning and antiaging effect. Synergistic superoxide-scavenging effects of camu-camu ext. with *Scutellaria baicalensis* ext. and superoxide dismutase were also shown.

L1 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:585381 CAPLUS

DOCUMENT NUMBER: 133:182770

TITLE: Antiaging cosmetics containing tomato pigments

INVENTOR(S): Uehara, Shizuka; Kameyama, Kumi; Kondo, Chiharu;  
Takada, Norihisa

PATENT ASSIGNEE(S): Kosei Co., Ltd., Japan; Nippon Delmonte K. K.

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

JP 2000229827 A2 20000822 JP 1999-28301 19990205  
JP 1999-28301 19990205  
PRIORITY APPLN. INFO.:  
AB The cosmetics are claimed. The tomato pigments may mainly comprise lycopene isolated by centrifugation of tomato preps., microfiltration of the liq. parts, and collection of unfiltered substances by microfiltration. The cosmetics may addnl. contain active oxygen scavengers, antioxidants, inflammation inhibitors, UV shields, cell activators, and/or moisturizers. A cream contg. the tomato pigment was used by volunteers to lighten skin and increase elasticity.

=> s saxifraga and livestock  
348 SAXIFRAGA  
8530 LIVESTOCK  
56 LIVESTOCKS  
8546 LIVESTOCK  
(LIVESTOCK OR LIVESTOCKS)  
L2 1 SAXIFRAGA AND LIVESTOCK

=> d L2 ibib abs hitrn

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:446083 CAPLUS  
DOCUMENT NUMBER: 137:5445  
TITLE: Liver function protecting or improving agent  
INVENTOR(S): Nakagiri, Ryusuke; Kamiya, Toshikazu; Hashizume, Erika; Sakai, Yasushi; Kayahashi, Shun  
PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 26 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1213027	A2	20020612	EP 2001-129254	20011211
EP 1213027	A3	20030115		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2002275082	A2	20020925	JP 2001-376550	20011211

PRIORITY APPLN. INFO.: JP 2000-375510 A 20001211  
AB The present invention provides a liver function protecting or improving agent, foods and drinks or feeds having liver function protecting or improving activity, and additives for foods and drinks or feeds having liver function protecting or improving activity, which comprise a plant of the family Saxifragaceae or an ext. of the plant. Also provided is a method of screening for liver function protecting or improving agents.

=> s saxifraga and fish  
348 SAXIFRAGA  
118253 FISH  
8167 FISHES  
120306 FISH  
(FISH OR FISHES)  
L3 2 SAXIFRAGA AND FISH

=> d L3 1-2 ibib abs hitrn

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:446083 CAPLUS  
DOCUMENT NUMBER: 137:5445

TITLE: Liver function protecting or improving agent  
INVENTOR(S): Nakagiri, Ryusuke; Kamiya, Toshikazu; Hashizume, Erika; Sakai, Yasushi; Kayahashi, Shun  
PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 26 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1213027	A2	20020612	EP 2001-129254	20011211
EP 1213027	A3	20030115		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002275082	A2	20020925	JP 2001-376550	20011211

PRIORITY APPLN. INFO.: JP 2000-375510 A 20001211

AB The present invention provides a liver function protecting or improving agent, foods and drinks or feeds having liver function protecting or improving activity, and additives for foods and drinks or feeds having liver function protecting or improving activity, which comprise a plant of the family Saxifragaceae or an ext. of the plant. Also provided is a method of screening for liver function protecting or improving agents.

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1946:37918 CAPLUS  
DOCUMENT NUMBER: 40:37918  
ORIGINAL REFERENCE NO.: 40:7325d-g  
TITLE: Vitamin B1 content of Arctic plants and animal tissue  
AUTHOR(S): Rodahl, Kaare  
CORPORATE SOURCE: Univ. Oslo, Oslo, Norway  
SOURCE: Trans. Proc. Botan. Soc. Edinburgh (1945), 34, 244-51  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

AB Results are given for the vitamin B1 content of the various tissues of the following Greenland mammals, birds, **fish**, and plants: musk ox (*Ovibos moschatus*), fjord seal (*Phoca foetida*), bearded seal (*Phoca barbata*), shark (*Somniosus microcephalus*), narwhal (*Monodon monoceros*), salmon (*Salmo alpinus*), snow hare (*Lepus variabilis glacialis*), rock ptarmigan (*Lagopus rupestris*), glaucous gull (*Larus hypoleucus*), parasitic jaeger (*Stercorarius parasiticus*), eider duck (*Somateria mollissima*), Honckenya peploides (L.) Ehrh, *Salix* spp., **Saxifraga** *oppositifolia* L., *Betula nana* L., *Dryas octopetala* L., *Papaver radicatum* Rottb., *Cassiope tetragona* (L.) D. Don, heather, *Arnica alpina* (L.) Olin, *Potentilla nivae* L., *Oxyria digyna* Hill, *Epilobium angustifolium* L., *Lychnis triflora* R. Br., *Pedicularis hirsuta* L., *Armeria* spp., *Cerastium alpinum* L., *Alopecurus alpinus* Sm., **Saxifraga** *cernua* L., *S. nivalis* L., and *Agaricus* spp. Among the plants, only *B. nana* had a significant content of vitamin B1 (3.5 and 2.3 .gamma. per g. in the fresh buds and stems, resp.). Fresh kidneys of the bearded seal contained 7.09 .gamma. vitamin B1 per g.

=> s saxifragaceae and poultry  
154 SAXIFRAGACEAE  
20911 POULTRY  
8 POULTRIES  
20916 POULTRY  
(POULTRY OR POULTRIES)  
L4 1 SAXIFRAGACEAE AND POULTRY

=> d L1 ibib abs hitrn

L1 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:769645 CAPLUS  
DOCUMENT NUMBER: 137:283985  
TITLE: Cosmetics containing peptides, mucopolysaccharides, and plant extracts  
INVENTOR(S): Yamamoto, Tsukasa; Nakamura, Masumi  
PATENT ASSIGNEE(S): Shizen K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002293747	A2	20021009	JP 2001-96999	20010329
PRIORITY APPLN. INFO.:			JP 2001-96999	20010329

AB This invention relates to skin preps. comprising sol. egg shell membranes, mucopolysaccharides, amino acids, and plant-originated substances which may have skin-lightening, anti-inflammatory, anti-allergic, and anti-oxidn. activities. For example, a skin-lightening lotion contained sol. egg shell membrane 0.2, Na hyaluronate 0.1, *Saxifraga* exts. 0.5, soybean exts. 1, 1,3-butylene glycol 5, polyoxyethylene glyceryl isostearate 0.5, pH modifiers q.s., perfumes q.s., preservatives q.s., and distd. water balance to 100 %.

=> s sasifragaceae and livestock  
0 SASIFRAGACEAE  
8530 LIVESTOCK  
56 LIVESTOCKS  
8546 LIVESTOCK  
(LIVESTOCK OR LIVESTOCKS)  
L5 0 SASIFRAGACEAE AND LIVESTOCK

=> s saxifragaceae and livestock  
154 SAXIFRAGACEAE  
0 LIVSTOCK  
L6 0 SAXIFRAGACEAE AND LIVSTOCK

=> s saxifragaceae and livestock  
154 SAXIFRAGACEAE  
8530 LIVESTOCK  
56 LIVESTOCKS  
8546 LIVESTOCK  
(LIVESTOCK OR LIVESTOCKS)  
L7 1 SAXIFRAGACEAE AND LIVESTOCK

=> d L7 ibib abs hitrn

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:446083 CAPLUS  
DOCUMENT NUMBER: 137:5445  
TITLE: Liver function protecting or improving agent  
INVENTOR(S): Nakagiri, Ryusuke; Kamiya, Toshikazu; Hashizume, Erika; Sakai, Yasushi; Kayahashi, Shun  
PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 26 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1213027	A2	20020612	EP 2001-129254	20011211
EP 1213027	A3	20030115		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002275082	A2	20020925	JP 2001-376550	20011211

PRIORITY APPLN. INFO.: JP 2000-375510 A 20001211

AB The present invention provides a liver function protecting or improving agent, foods and drinks or feeds having liver function protecting or improving activity, and additives for foods and drinks or feeds having liver function protecting or improving activity, which comprise a plant of the family **Saxifragaceae** or an ext. of the plant. Also provided is a method of screening for liver function protecting or improving agents.

=> s saxifragaceae and fish  
154 SAXIFRAGACEAE  
118253 FISH  
8167 FISHES  
120306 FISH  
(FISH OR FISHES)  
L8 2 SAXIFRAGACEAE AND FISH

=> d L8 1-2 ibib abs hitrn

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:888545 CAPLUS  
DOCUMENT NUMBER: 137:352000  
TITLE: Production and use of a polar lipid-rich fraction containing stearidonic acid and gamma linolenic acid from plant seeds and microbes  
INVENTOR(S): Kohn, Gerhard; Banzhaf, Wulf; Abril, Jesus Ruben  
PATENT ASSIGNEE(S): Martek Biosciences Boulder Corporation, USA  
SOURCE: PCT Int. Appl., 18 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002092073	A1	20021121	WO 2002-US15479	20020514
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2001-291484P P 20010514

AB The prodn. and use, and in particular the extn., sepn., synthesis and recovery of polar lipid-rich fractions contg. gamma linolenic acid (GLA) and/or stearidonic acid (SDA) from seeds and microorganisms and their uses in human food applications, animal feed, pharmaceuticals and cosmetics are claimed.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:446083 CAPLUS  
DOCUMENT NUMBER: 137:5445  
TITLE: Liver function protecting or improving agent  
INVENTOR(S): Nakagiri, Ryusuke; Kamiya, Toshikazu; Hashizume, Erika; Sakai, Yasushi; Kayahashi, Shun  
PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 26 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1213027	A2	20020612	EP 2001-129254	20011211
EP 1213027	A3	20030115		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002275082	A2	20020925	JP 2001-376550	20011211
JP 2000-375510 A 20001211				
PRIORITY APPLN. INFO.:				
AB	The present invention provides a liver function protecting or improving agent, foods and drinks or feeds having liver function protecting or improving activity, and additives for foods and drinks or feeds having liver function protecting or improving activity, which comprise a plant of the family <b>Saxifragaceae</b> or an ext. of the plant. Also provided is a method of screening for liver function protecting or improving agents.			

=> s coccidium  
L9 68 COCCIDIUM  
  
=> s coccidium and liver  
68 COCCIDIUM  
483734 LIVER  
33062 LIVERS  
486706 LIVER  
(LIVER OR LIVERS)  
L10 2 COCCIDIUM AND LIVER

=> d L10 1-2 ibib abs hitrn

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2000:193690 CAPLUS  
DOCUMENT NUMBER: 132:292871  
TITLE: An improved method for the determination of sulphachloropyrazine in meat and **liver** of broilers during and after their treatment for coccidiosis  
AUTHOR(S): Kostadinovic, Lj.; Pavkov, S.; Gaal, F.  
CORPORATE SOURCE: Scientific Veterinary Institute, Novi Sad, 21000, Yugoslavia  
SOURCE: Acta Alimentaria (1999), 28(4), 311-319  
CODEN: ACALDI; ISSN: 0139-3006  
PUBLISHER: Akademiai Kiado  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB The paper presents results of the HPLC detn. of sulfachloropyrazine residues (active component of the drug "Esb3 30%") in muscle tissue and **liver** of broiler chickens inoculated with lab.-grown **Coccidium** in the course and after treatment with this sulfonamide.

Extn. of sulfachloropyrazine from samples of broiler muscle tissue and liver was carried out with a mixt. of solvents dichloromethane-methanol-acetic acid (90:5:5, vol./vol./v), followed by ext. purifn. by chromatog. sepn. on a XAD-2 column and elution of sulfachloropyrazine residues with dichloromethane. The HPLC detn. of sulfachloropyrazine residues was accomplished on a Bio Sil C-8 HL 5 .mu.m column with a mobile phase consisting of 60% aq. soln. of acetonitrile and NH3 (pH=9.5), using a UV detector at 254 nm. The method developed allows quant. detn. of the residues of the anticoccidial agent in broiler tissue samples with a detection limit of 0.02 .mu.g g-1. Recovery of the method for this type of samples with a complex matrix was satisfactory, the results ranging from 79.2 to 86.7% for muscle tissue and from 81.7 to 87.3% for liver.

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1982:16504 CAPLUS

DOCUMENT NUMBER: 96:16504

TITLE: Purine metabolism in the protozoan parasite *Eimeria tenella*

AUTHOR(S): Wang, C. C.; Simashkevich, P. M.

CORPORATE SOURCE: Merck Inst. Ther. Res., Rahway, NJ, 07065, USA

SOURCE: Proceedings of the National Academy of Sciences of the United States of America (1981), 78(11), 6618-22

CODEN: PNASA6; ISSN: 0027-8424

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Crude exts. of the oocysts of *E. tenella*, a protozoan parasite of the coccidium family that develops inside the cecal epithelial cells of infected chickens, do not incorporate glycine or formate into purine nucleotides; this suggests lack of capability for de novo purine synthesis by the parasite. The exts., however, contain high levels of activity of the purine salvage enzymes: hypoxanthine, guanine, xanthine, and adenine phosphoribosyltransferases and adenosine kinase. The absence of AMP deaminase from the parasite indicates that *E. tenella* cannot convert AMP to GMP; the latter thus has to be supplied by the hypoxanthine, xanthine, or guanine phosphoribosyltransferase of the parasite. These 3 activities are assocd. with one enzyme (HXGPRTase), which was purified to near homogeneity in high yield (71-80%) in a single step by GMP-agarose affinity column chromatog. The size of the enzyme subunit is 23,000 daltons (SDS gel electrophoresis). Kinetic studies suggest differences in purine substrate specificity between *E. tenella* HXGPRTase and chicken liver HGPRTase. Allopurinol preferentially inhibits the parasite enzyme by competing with hypoxanthine; Ki is .apprx.22 .mu.M.